	Manufacture	- Model No
	Size	Comments
1.3	Pavement Replaceme	nt
	Asphalt and concrete	
	Type 301 asphalt	
	type oo raepnan	-
		base course
	Type 402 asphalt	
	1 y pc 402 usphun	_
		intermediate course
	Type 404 asphalt	
		-
		top course
	Type 451 concrete	
		-
		reinforced
2.01	PIPE AND FITTINGS	
	Pipe Couplings (dissimilar pipe applications) stainless bolts required	
	Full Circle Repair Clamp	
	Smith - Blair	- 226,227,238,239
	2"-14". 2"-8" nom. Size	3/4". 1" Threaded Outlet Single or Double Band

2"-14", 2"-8" nom. Size 3/4", 1" Threaded Outlet Single or Double Band Pipe Repair Couplings -501, XR501 Romac 2"-24" 501,4"-12" XR501 Flanges Color Coded, Red=I.P.S, Black=C.I, Yellow=A.C - RC-501,EC-501 Romac 4"x3",6",8"x6",10",4"x16" Color Coded Range - 253 Dresser 4"-16" nom. Size Mix and Match Colors Smith Blair - 441,442,461,462 441, 2"-16",461 4"-12" Flanges Color Coded, Red=I.P.S, Blue= D.I.P.S, Grey=AC Fittings Full Body (350 p.s.i.) D.I.P. C110

В

Manufacture - Model No
Size Comments

2.01 PIPE AND FITTINGS

B Fittings Full Body (350 p.s.i.) D.I.P. C110

Fittings Full Body 350 psi

Tyler / Union / Ufco - Cement lined

2" to 48" Pipe larger than 24" rated at 250 psi

Sigma - Cement lined

3" to 24" Pipe larger than 24" rated at 250 psi

Star - Cement lined

2" to 54" Pipe larger than 24" rated at 250 psi

Clow / McWayne - Cement lined

3" to 36" Pipe larger than 36" rated at 250 psi

Flanged Fittings

Clow / McWayne - Cement lined

Zinc Anode Caps

Mars - 6oz. Weight

5/8", 3/4"

Gaskets

Clow - Nsf-61

As Needed Fluorocarbon, used for contaminated soils

Manufactured Restraint Pipe

Clow / McWane - Super Lock boltless

6" to 24" CL 56 PSI 250 above 30" dia.fastite joints

U.S. Pipe - TR Flex boltless

4" to 24" CL56 Above 24" rated 250 psi

American - Flex Ring Pipe boltless

4" to 64" CL56 PSI 250 above 30" dia.fastite joints 20'

Mechanical Joint Restraints

Manufacture - Model No Size Comments

2.01 PIPE AND FITTINGS

B Fittings Full Body (350 p.s.i.) D.I.P. C110

Mechanical Joint Restraints

Ford - Uni-Flange -1400 series

3" to 36" Above 16" rated at 250 psi

Ebba Iron Inc. - Megaflange 1100 series

3" to 48" Above 16" rated at 250 psi,Black

Pipe Joint Lubricant

Ease-On - no petroleum based allowed

Ductile Iron Pipe, CL 52,53,56

Griffin - Tyton / Fastite

3" to 24" /30" to 48" 18' or 20' lengths available

U.S Pipe - Tyton

4" to 64" 4"- 42" in 18' lengths,16",20",24", 48"-64" in 20' lengths

American - Fastite

4" to 64" 20' lengths except 4" is 18' length

McWane/Clow - Tyton / Fastite

3" to 24" /30" to 36" 3" and 4" available in 20' lengths

2.02 POLYETHELENE ENCASEMENT

polywrap for class 52 D.I.P.

Polyethylene Encasement

-

Min. 8 mil thick

2.03 PIPE INSULATION

Pipe Insulation

Foamglas Pipe Insulation

Pittsburgh Corning Corp. - FoamGlas Pipe Insulation

Manufacture - Model No Size Comments

2.04 PIPELINE MARKERS

Pipeline Markers

Carsonite Utility Markers

Ametek - Carsonite Utility Markers

2.05 STEEL ENCASEMENT PIPE

Casing Chocks (stainless steel)

Casing Chocks

Advance Products & Sys., I - SS1

As Needed @ 10' intervals max

Power Seal Pipeline Produc- 4810

As Needed @ 10' intervals max

Cascade Waterworld Mfg.. -

As Needed @ 10' intervals max

2.06 GATE VALVES

Gate Valves-Resilent Wedge

* See Municipal Requirements

Gate Valve Includes OS&Y

Kennedy - KS-FW

2" TO 12" Assembly Bolts Stainless Steel

American Flow Control - 2500 D.I.P. body

2" TO 16" Assembly Bolts Stainless Steel

Mueller - 2360/ 2361

2.5" TO 12" /14" to 36" Assembly Bolts Stainless Steel

2.07 TAPPING SLEEVES

B Tapping Sleeves (Flanged or MJ)

Tapping Sleeves

Mueller - H-304SS,304MJ,H-615,T-9

4"-36" H-615 dip body 4"-24",T-9 30"-36"d.i.p.

Manufacture - Model No
Size Comments

2.07 TAPPING SLEEVES

B Tapping Sleeves (Flanged or MJ)

Tapping Sleeves

Power Seal - 3480 / 3480MJ

4"-24" x 2"-24" outlet Stainless, one piece mj outlet

JCM- - 432

2"-12" and 4"-24"MJ Stainless Steel 15"width min.

Rockwell/Smith Blair - 663, 665

6"-24"with 4"- 12" outlet Stainless Steel add mj to order

Romac Industries - SST111,SSTM.J.

4"-30"with 12"outlet Stainless Steel flange

American Darling - 2800

4"-36"x 4"-24" outlet D.I.P. Body

C Tapping Valves (Resilent Wedge) stainless bolts

Tapping Valves

American Flow Control - 2500-1, 2500

4" to 48" MJ or Flange,

Mueller - 2360

4" to 24" MJ or Flange

Kennedy - 8950ss

4" to 12" MJ or Flange

2.08 AIR RELEASE VALVE

2" ball valve

Air Release Valve

Ford - FB 700

2" Iron Pipe Thread

Mueller - B-20285

2" Iron Pipe Thread

Approved Materials - Water Manufacture - Model No Size **Comments** 2.08 AIR RELEASE VALVE 2" ball valve Air Release Valve McDonald -6107 2" Iron Pipe Thread 2.09 VALVE BOX Valve Boxes, Water on Top 3 Piece Screw Type Valve Boxes Bibby ALL Ford ALL Star **ALL** Mueller **ALL** Tyler - 6500 series 95E-100E **ALL** Bingham Taylor - SIZE CC ALL 2.10 METER VAULTS **Precast Concrete Vault, Frames, Covers** Frames and Covers Neenah - Model R-1782 Heavy duty East Jordan Iron Works - 1710 Heavy duty

East Jordan Iron Works

- model 2990

Non traffic bearing

Manufacture - Model No Size Comments

2.10 METER VAULTS

Precast Concrete Vault, Frames, Covers

Gaskets

Kor N Seal

as needed

Precast Concrete Vault

McGill -

as needed

Mack Industries.

as needed

Lindsey Concrete

as needed

2.11 FLUSHING ASSEMBLIES

Flushing Assembly, Blow-off

Flushing Assembly

Kupferle - T500

2" Comes with own key

2.12 FIRE HYDRANTS

B Hydrants (three-way type) Repair Kits, Stortz Connection

Hydrants

American Darling - B62-B-5

5.25" M.V.O

Mueller-Super-Centurion - A-423 / 423

5.25" M.V.O

Repair Kit

American Darling - B-62

5.25" M.V.O

Mueller - A-301

5.25" M.V.O

Manufacture - Model No Size Comments

2.12 FIRE HYDRANTS

B Hydrants (three-way type) Repair Kits, Stortz Connection

Storz Connection

Guardian - 6600 series

local fire dept.requirements

D Hydrant Anchoring (Swivel) Tee's and 90's

Anchoring Pipe

Clow Corp / McWayne

6"

Tyler/Union

8"-30"x6" and 16"x8"

Sigma

6"

U.S. Pump and Foundry Co-

6"

American Cast Iron Pipe Co-

6"

Concentric Reducer

Clow, Sigma, Star, Tyler Unio -

8" x 6"

Hydrant Extensions

Mueller - A-319,320

6" - 4' Super Centurian

- K10 / K10B / K11

6" - 3'-6" Guardian

Offset Grade Adjusting Fitting

Grade - Lok -

6"x6",6"x12",6"x24" 350 psi.mj available

2.13 Backflow device

Manufacture - Model No Size Comments

2.13 Backflow device

A-B ductile iron body

Backflow device

- AWWA Aproved

2" and above

double check or reduced pressure

C Heated Enclosure

Heated Enclosure

N/A

- comply with ASSE-1060

As needed

2.15 SERVICE CONNECTIONS

A Corp Stops, Curb Stops, Flare Fittings, Service Saddles

Corporation Stops

A.Y. McDonald - 4701-B

1" min. new const. Ball valve

Ford Meter Box Co. - F600, F700, FB600, FB700

1" min. new const. M.I.P X FI for saddles, FB series rated 300 psi

Mueller - 15000, B25025, B25000

1" min. new const. M.I.P X FI for saddles, 25000 rated at 300 psi

Curb Box

McWayne Bibby - M-94E Arch Base

2.5" Screw type

Bingham and Taylor - P-94-E

2.5" Screw type

Curb Stops

Ford Meter Box Co. - B-22 series

1" min. new const Flare x Flare

A. Y. McDonald - 6100 series

1" min. new const Flare x Flare

Manufacture - Model No
Size Comments

2.15 SERVICE CONNECTIONS

A Corp Stops, Curb Stops, Flare Fittings, Service Saddles

Curb Stops

Mueller - B-25204

1" min. new const Quarter turn check only

Flare Copper 1/8 bend

A.Y. McDonald - 4750s

As needed to match corp Female Swivel nut x flare Nut

Ford Meter Box Co. - LA-S series

As needed to match corp Female Swivel nut x Flare Nut

Ford Meter Box Co. - LA series

As needed to match corp Female Copper thread x Flare Nut

A.Y. McDonald - 4750

As needed to match corp Female Copper thread x Flare Nut

Mueller - H-15063

As needed to match corp Female Flare thread x Flare Nut

Flare Copper Couplings

Ford Meter Box Co. - C-28 series

1" min. new const 1/2" to 2" Available FL X M.I.P.

Ford Meter Box Co. - C-21 series

1" min. new const 1/2" to 2" Available FL X F.I.P.

Flare Copper Quarter Bend

Ford Meter Box Co. - L02 series

As needed to match corp Female Copper thread x Flare Nut

Ford Meter Box Co. - L02 S series

As needed to match corp Female Swivel nut xFflare Nut

Mueller - H-15068

As needed to match corp Female Flare thread x Flare Nut

Manufacture - Model No
Size Comments

2.15 SERVICE CONNECTIONS

A Corp Stops, Curb Stops, Flare Fittings, Service Saddles

Flare Copper Quarter Bend

A.Y. McDonald - 4776s

As needed to match corp Female Swivel nut x Flare Nut

A.Y. McDonald - 4776,

As needed to match corp Female Copper thread x Flare Nut

High Density Polyethelene

Charter Plastics, Ferguson -

3/4" ,1" .5"to 3" Min.psi 160 DR-11

Red Brass Pipe

-

Inside 2" Vaults

Service Saddle

Smith - Blair - 325

4" to 12" nom. size Double Strap, 3/4" to 2" outlet, corp, M.I.P. X Flare

Mueller - BR2B

4" to 16" nom. size Double Strap, 3/4" to 2" outlet, corp, M.I.P. X Flare

Ford - 202B

4" to 30" nom. size Double Strap, 3/4" to 2" outlet, corp, M.I.P. X Flare

Type K Copper

Cerro, Reading - K

3/4" to 2" Soft Copper for waterline

Union Fitting

A. Y. McDonald - 4758

1" min. new const 1/2" to 2" available, 3 part

Ford Meter Box Co. - C22 series

1" min. new const 1/2" to 2" available, 3 part

Manufacture - Model No Size Comments

2.15 SERVICE CONNECTIONS

A Corp Stops, Curb Stops, Flare Fittings, Service Saddles

Union Fitting

Mueller - H-15400

1" min. new const 1/2" to 2" available, 3 part

2.16 BEDDING AND BACKFILL

A ODOT Item 703.06 sand

Sand

Demilta, Osborne, Sidley - ODOT item 703.06 Sand

4" below and 12" above Natural or Manufactured sand

B Granular Backfill

57 Limestone

Demilta, Osborne, Sidley

304 Crushed Limestone

Demilta, Osborne, Sidley - 5% pass the 200 sieve

Max 2" stones

C Control Density Fill or Low Strength Mortar

Control Density Fill

Osborne, Sidley, Cashen

ODOT Item 613 type 1

2.25 METERS AND SETTINGS

Combination Domestic / Fire Meter (2" inches and above)

Master Meter

Hersey - FM remote read

2" above By-Pass must be Positive Displacement

Sensus - Omni C2 and T2

2" above

Angle Yoke Ells

Manufacture - Model No Size Comments

2.25 METERS AND SETTINGS

Combination Domestic / Fire Meter (2" inches and above)

Angle Yoke Ells

Mueller - H-14202

3/4",1" Lock nut x copper flare nut

Ford - L92 series

3/4" / 1" Flared copper by meter yoke nose

A.Y. McDonald - 4779Y

3/4" / 1" Flange by Flare elbow available 4783F 1.5"

Angle Yoke Valve

Ford - BA92 series

3/4" / 1"

A.Y. McDonald - 4602Y

3/4" / 1" Flanged available 4602B 1.5"

Mueller - H-14275

3/4",1" Copper Flare nut x lock nut

Extension ring

Ford - EXT Series

adapts 18",20"to 24",30"

Flare 1/4 Bend for Corp Stop

A.Y. McDonald - 4776,4776s

1" / 1.5"

Frame and Cover

East jordan - 2890

Non traffic bearing

Meter Lid Cover

Ford - C-32-T,C3-T,C4-T

18" to 21" dia.

Meters

Manufacture - Model No Size Comments

2.25 METERS AND SETTINGS

Combination Domestic / Fire Meter (2" inches and above)

Meters

Sensus - SRI

3/4" / 1" Touch read

PVC Meter Vault

Carson / Sonoloc -

18"min for 3/4",24" for 1" PVC Meter Vault

Old Village / Ads hancor -

18"min for 3/4",24" for 1" PVC Meter Vault

Traffic Bearing Meter Vault

Mueller - M5DS

18" x 30" Traffic Bearing Meter Vault

Yoke

A.Y. McDonald - 14-2,4

3/4" / 1"

Ford - Y-502/Y504

3/4" / 1" Iron Yoke

Yoke Expander Nut

Ford - EC-23,EC-4

3/4" / 1"

Mueller - H-14234

3/4" ,1" 3 piece with o-ring

A.Y. McDonald - 14-2 EHG&14-4 EHG

3/4" / 1"

2.27 CHLORINE

Calcium Hypochlorite Granules

Chlorine

Manufacture - Model No Size Comments

2.27 CHLORINE

Calcium Hypochlorite Granules

Chlorine

AWWA approved

Granules 65% Available Min by weight